

ABSTRACT

The gradation display device contains gradient detecting circuit (3) for detecting a gradient of gradation values of pixels in an incoming image; time-varying gradation-value detecting circuit (4) for detecting changes in gradation values of the pixels with a passage of time; an image detector for detecting a magnitude and a direction of movement of the incoming image according to outputs from gradient detecting circuit (3) and time-varying gradation-value detecting circuit (4); and gradation correcting circuit (12) for correcting signals of the incoming image according to the detected magnitude and direction of the image and the weight of luminance assigned to each of the sub-fields so as to display proper image.

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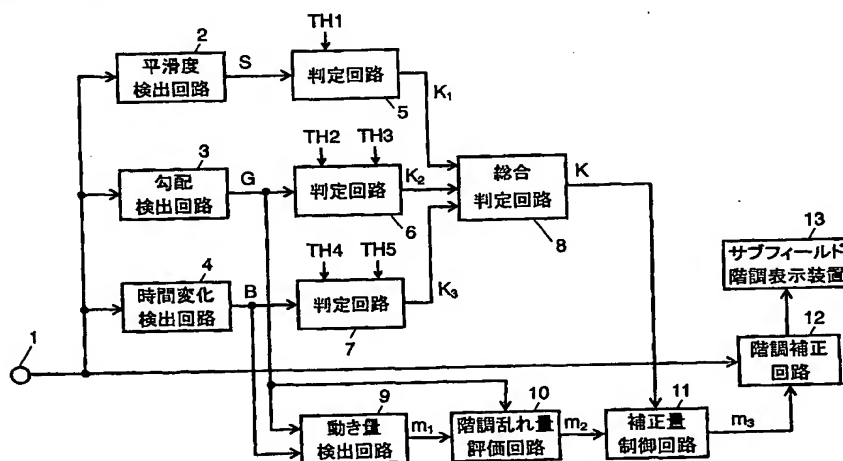
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- (51) 国際特許分類⁷: G09G 3/20, 3/28 (72) 発明者; および
(75) 発明者/出願人 (米国についてのみ): 川原 功 (KAWA-HARA, Isao).
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- (22) 国際出願日: 2004年4月27日 (27.04.2004) (74) 代理人: 岩橋 文雄, 外(IWAHASHI, Fumio et al.); 〒5718501 大阪府門真市大字門真1006番地 松下電器産業株式会社内 Osaka (JP).
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- (71) 出願人 (米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) [JP/JP]; 〒5718501 大阪府門真市大字門真1006番地 Osaka (JP).
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(54) Title: GRAY SCALE DISPLAY DEVICE

(54) 発明の名称: 階調表示装置



- 2...SMOOTHING DEGREE DETERMINING CIRCUIT
5...DECISION CIRCUIT
3...GRADIENT DETERMINING CIRCUIT
6...DECISION CIRCUIT
8...INTEGRATED DECISION CIRCUIT
4...TIME VARIATION DETERMINING CIRCUIT
7...DECISION CIRCUIT
9...MOTION AMOUNT DETERMINING CIRCUIT
10...GRAY SCALE IRREGULARITY AMOUNT EVALUATING CIRCUIT
11...CORRECTION AMOUNT CONTROL CIRCUIT
12...GRAY SCALE CORRECTION CIRCUIT
13...SUB-FIELD GRAY SCALE DISPLAY DEVICE

(57) Abstract: There are included a gradient determining circuit (3) for determining the gradients, in a screen, of gray scale values of pixels in an input image; a time variation determining circuit (4) for determining the degree of variation of the gray scale values of the pixels relative to time; means for determining both the

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